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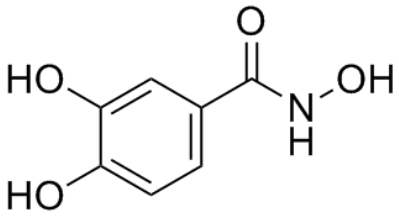
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Didox
Cat. No.	:	PC-45630
CAS No.	:	69839-83-4
Molecular Formula	:	$C_7H_7NO_4$
Molecular Weight	:	169.1348
Target	:	Nucleoside Antimetabolite/Analog
Solubility	:	10 mM in DMSO



Biological Activity

Didox is a ribonucleotide reductase (**RNR**) inhibitor; overcomes Bcl-2 mediated radiation resistance in PC-3 cells, inhibits LPS-induced mRNA levels of iNOS, IL-6, IL-1, TNF-α, NF-κβ (p65), and p38-α.
Didox induces apoptosis and inhibits DNA repair in multiple myeloma cells by downregulation of bcl family proteins including bcl-2, bcl(xl), and XIAP.
Didox (150 mg/kg daily) significantly protects the cardiomyocyte membrane integrity and decreases the intra-cardiac oxidative stress induced by DOX treatment (15 mg/kg) in mice.

References

Inayat MS, et al. ***Cancer Biol Ther***. 2002 Sep-Oct;1(5):539-45.

Raje N, et al. ***Br J Haematol***. 2006 Oct;135(1):52-61.

Al-Abd AM, et al. ***Eur J Pharmacol***. 2013 Oct 15;718(1-3):361-9.

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